

**Familjemedlemmar****13** family members for:**BR9404096**

Derived from 7 applications.

- 1 Method and apparatus for intermittent production of oil with a mechanical interface**  
Publiceringsinformation: **BR9404096 A** - 1996-12-24
- 2 Method and Apparatus for Intermittent Production of Oil with a Mechanical Interface**  
Publiceringsinformation: **CA2158514 A1** - 1996-04-15  
**CA2158514 C** - 2000-11-14
- 3 Method and apparatus for intermittent production of oil with mechanical interface**  
Publiceringsinformation: **CN1066514C C** - 2001-05-30  
**CN1132820 A** - 1996-10-09
- 4 Method and apparatus for intermittent production of oil with a mechanical interface**  
Publiceringsinformation: **GB2297129 A** - 1996-07-24  
**GB2297129 B** - 1998-06-24  
**GB9600303D D0** - 1996-03-13
- 5 Method and apparatus for intermittent production of oil with a mechanical interface**  
Publiceringsinformation: **NO310694B B1** - 2001-08-13  
**NO954013 A** - 1996-04-15  
**NO954013D D0** - 1995-10-09
- 6 METHOD AND DEVICE FOR INTERMITTENT PRODUCTION OF OIL WITH HELP OF MECHANICAL INTERFACE**  
Publiceringsinformation: **RU2120026 C1** - 1998-10-10
- 7 Method and apparatus for intermittent production of oil with a mechanical interface**  
Publiceringsinformation: **US5671813 A** - 1997-09-30

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## Method and apparatus for intermittent production of oil with a mechanical interface

Patentnummer: NO954013

Publiceringsdag: 1996-04-15

Uppfinnare: LIMA PAULO CESAR RIBEIRO (BR)

Sökande: PETROLEO BRASILEIRO SA (BR)

Klasser:

-internationell: E21B43/00

-europeisk: E21B23/08; E21B33/068; E21B43/12B; F04B47/12; F04F1/08

Ansökningsnummer: NO19950004013 19951009

Prioritetsnummer: BR19940004096 19941014; GB19960000303 19960108

Även publicerad som



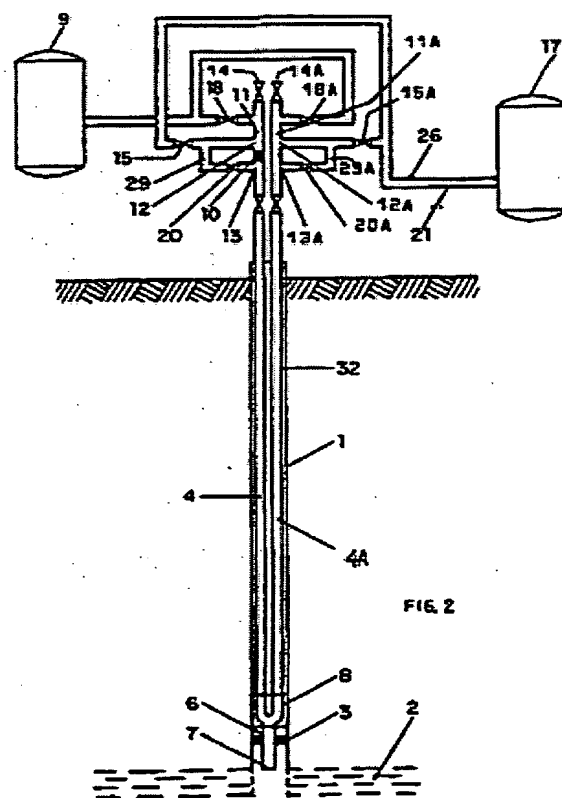
GB2297129 (U)

CA2158514 (C)

Inget sammandrag tillgängligt för NO954013

Sammandrag från motsvarighet **GB2297129**

Two production strings 4, 4A extend from the well head to a zone close to the production region 2 where there is located a component 8 interconnecting both strings 4, 4A. The interconnection enables a mechanical interface 10, e.g. a sphere or pig, launched from the surface to descend along one of the tubings 4 and rise up the other 4A, pushing along with it all oil present in the tubings. The displacement of the mechanical interface 10 is obtained by applying high pressure gas from a source 9 to the tubing 4 or 4A in which the mechanical interface is stationed. Oil displaced by the interface is delivered to a production vessel 17. Well head valving ensures that the interface 10 commences travelling from a region between passages 12, 13 and arrives at a region between passages 12A, 13A and vice versa. A sensor 26 responsive to the arrival of gas in a line 21 to the production vessel controls the valving.



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🔍 Title: **NO0310694B1: FREMGANGSMAATE OG ANORDNING FOR INTERMITTERENDE OLJEPRODUKSJON VED HJELP AV EN MEKAI GRENSEFLATEINNRETNING**

🔍 Derwent Title: Appts. for intermittent prodn. of oil with mechanical interface - promotes lifetime of oil in oil producing wells that accumulates in the prodn. string.  
[Derwent Record]

🔍 Country: **NO** Norway🔍 Kind: **B1** Granted Patent (Law 1997) i🔍 Inventor: **LIMA, PAULO CESAR RIBEIRO**; Brazil

🔍 Assignee: **PETROLEO BRASILEIRO SA - PETROBRAS** Brazil  
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🔍 Published / Filed: **2001-08-13** / 1995-10-09🔍 Application Number: **NO1995000004013**🔍 IPC Code: IPC-7: **E21B 43/00**; **F04B 47/00**;

🔍 ECLA Code: None

🔍 Priority Number: 1994-10-14 **BR1994000004096**  
1996-01-08 **GB1996000000303**

🔍 INPADOC Legal Status: None      Get Now: [Family Legal Status Report](#)

🔍 Family:

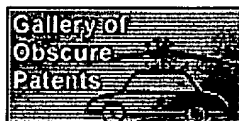
PDF	Publication	Pub. Date	Filed	Title
	<a href="#">US5671813</a>	1997-09-30	1995-10-12	Method and apparatus for intermittent pro oil with a mechanical interface
<input checked="" type="checkbox"/>	<a href="#">RU2120026C1</a>	1998-10-10	1995-09-28	METHOD AND DEVICE FOR INTERMIT PRODUCTION OF OIL WITH HELP OF MECHANICAL INTERFACE
<input checked="" type="checkbox"/>	<a href="#">NO0954013A0</a>	1995-10-09	1995-10-09	FREMGANGSMAATE OG ANORDNING INTERMITTERENDE OLJEPRODUKSJC
<input checked="" type="checkbox"/>	<a href="#">NO0954013A</a>	1996-04-15	1995-10-09	FREMGANGSMAATE OG ANORDNING INTERMITTERENDE OLJEPRODUKSJC
<input checked="" type="checkbox"/>	<a href="#">NO0310694B1</a>	2001-08-13	1995-10-09	FREMGANGSMAATE OG ANORDNING INTERMITTERENDE OLJEPRODUKSJC HJELP AV EN MEKANISK GRENSEFLATEINNRETNING
	<a href="#">GB9600303A0</a>	1996-03-13		
<input checked="" type="checkbox"/>	<a href="#">GB9600303A</a>	1996-03-13	1996-01-08	METHOD AND APPARATUS FOR INTEF PRODUCTION OF OIL USING A MECHA

				INTERFACE
	GB2297129B2	1998-06-24		
<input checked="" type="checkbox"/>	GB2297129B	1998-06-24	1996-01-08	METHOD AND APPARATUS FOR INTER PRODUCTION OF OIL USING A MECHANICAL INTERFACE
	GB2297129A1	1996-07-24		
<input checked="" type="checkbox"/>	GB2297129A	1996-07-24	1996-01-08	METHOD AND APPARATUS FOR INTER PRODUCTION OF OIL WITH A MECHANICAL INTERFACE
<input checked="" type="checkbox"/>	CN1132820A	1996-10-09	1995-10-09	METHOD AND APPARATUS FOR INTER PRODUCTION OF OIL WITH MECHANICAL INTERFACE
<input checked="" type="checkbox"/>	CN1066514C	2001-05-30	1995-10-09	Method and apparatus for intermittent pro oil using gas-lift plug
	CN1066514B	2001-05-30		
<input checked="" type="checkbox"/>	CA2158514C	2000-11-14	1995-09-18	METHOD AND APPARATUS FOR INTER PRODUCTION OF OIL WITH A MECHANICAL INTERFACE
<input checked="" type="checkbox"/>	CA2158514AA	1996-04-15	1995-09-18	METHOD AND APPARATUS FOR INTER PRODUCTION OF OIL WITH A MECHANICAL INTERFACE
<input checked="" type="checkbox"/>	BR9404096A	1996-12-24	1994-10-14	METODO E APARELHO PARA PRODUÇÃO INTERMITENTE DE PETRÓLEO COM INTERFÉ MECÂNICA
17 family members shown above				

Other Abstract  
Info:



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